IMPORTANT FEATURES ABOUT THE PHS 398 PDF FORMS

The PHS 398 and PHS 2590 Rich Text File (RTF) and Portable Document File (PDF) Form pages as provided are acceptable by NIH. All other sections of the application (e.g., Biographical Sketch, Introduction, if necessary, and the Research Plan) must conform to the following four requirements:

- 1. The height of the letters must not be smaller than 10 point; Helvetica or Arial 12-point is the NIH-suggested font.
- 2. Type density, including characters and spaces, must be no more than 15 characters per inch (cpi).
- 3. No more than 6 lines of type within a vertical inch;
- 4. Margins, in all directions, must be at least ½ inch.

You may substitute computer-generated facsimiles for government-printed forms; however, they must maintain the exact wording and format of the government-printed forms, including all captions and spacing. The PHS 398 and 2590 includes Form Pages and Format Pages. The format pages are intended to assist you in the development of specific sections of the application. Format Pages have been left "unprotected" to allow you to format text, insert graphics, diagrams, or tables. Alternatively, you may create a page similar to the format provided and inclusive of requisite information.

SBIR/STTR Applicants. All SBIR/STTR applications (Phase I, Phase II, and Phase I/Phase II Fast-Track) must be prepared using the PHS 398 Forms in accordance with Chapter VI of the PHS 398 instructions.

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3. PRINCIPAL INVESTI	GATOR/PROGRAM DIR	ECTOR	New Investigator	No	Yes	
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14. PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR ASSURANCE: I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am			SIGNATURE OF PI/F			DATE
aware that any false, fictitious, or fraudulent statements or claims may subject me to			(In ink. "Per" signatur	е погассерта	able.)	
criminal, civil, or administrative penalties. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as						
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concisely the research design and methods for is meant to serve as a succinct and accur description, as is, will become public information provided.	or achieving these goals. Avoid summaries ate description of the proposed work whe	of past accomplishments and the separated from the application	ne use of the first person. This abstract ion. If the application is funded, this
PERFORMANCE SITE(S) (organization, o	city, state)		
KEY PERSONNEL. See instructions. Use	continuation pages as needed to provid	e the required information in t	he format shown below.
Start with Principal Investigator. List all oth Name	er key personnel in alphabetical order, la Organization	st name first.	Role on Project
Disclosure Permission Statement. Appl	icable to SBIR/STTR Only. See instruction	ons. Yes No	

The name of the principal investigator/program director must be provided at the top of each printed page and each continuation page.

RESEARCH GRANT TABLE OF CONTENTS

		Page I	Numbers		
Face Page					
Desc	ription, Performance Sites, and Personnel	2-			
	e of Contents				
	iled Budget for Initial Budget Period (or Modular Budget)	_			
	get for Entire Proposed Period of Support (not applicable with Modular Budget)	=			
	gets Pertaining to Consortium/Contractual Arrangements (not applicable with Modular Budget)	_			
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	uction to Revised Application (Not to exceed 3 pages)	=			
	uction to Supplemental Application (Not to exceed one page)	_			
	Background and Significance	_			
	Preliminary Studies/Progress Report/ (Items A-D: not to exceed 25 pages*)	_			
0.	Phase I Progress Report (SBIR/STTR Phase II ONLY) * SBIR/STTR Phase I: Items A-D limited to 15 pages.	_			
D.	Research Design and Methods	_			
	Human Subjects	_			
	Protection of Human Subjects (Required if Item 4 on the Face Page is marked "Yes")	_			
	Inclusion of Women (Required if Item 4 on the Face Page is marked "Yes")	_			
	Inclusion of Minorities (Required if Item 4 on the Face Page is marked "Yes")	_			
	Inclusion of Children (Required if Item 4 on the Face Page is marked "Yes")	_			
	Data and Safety Monitoring Plan (Required if Item 4 on the Face Page is marked "Yes" <u>and</u> a Phase I, II, or III clinical trial is proposed				
F.	Vertebrate Animals	_			
G.	Literature Cited	_			
Н.	Consortium/Contractual Arrangements	_			
I.	Letters of Support (e.g., Consultants)	_			
J.	Product Development Plan (SBIR/STTR Phase II and Fast-Track ONLY)	_			
Chec	klist	_			
Appe	endix (Five collated sets. No page numbering necessary for Appendix.)	Chec			
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	er of publications and manuscripts accepted for publication (not to exceed 10)	I			
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BUDGET FOR ENTIRE PROPOSED PROJECT PERIOD DIRECT COSTS ONLY

BUDGET C	ATEGORY	INITIAL BUDGET ADDITIONAL YEARS OF SUPPORT REQUESTED				
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JUSTIFICATION. Follow the budget justification instructions exactly. Use continuation pages as needed.



Principal Investigator/Program Director (Last, first, middle):

BUDGET JUSTIFICATION PAGE MODULAR RESEARCH GRANT APPLICATION						
Initial Budget Period Second Year of Support Third Year of Support Fourth Year of Support Fifth Year of Support						
Total Direct Costs Requested for Entire Project Period						

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PHS 398 (Rev. 05/01) Page _____ **Modular Budget Format Page**



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Α.	Positions and Honors. List in chronological or any honors. Include present membership on any			
		'	,	
В.	Selected peer-reviewed publications (in chr	ronological order). D	o not include pub	olications submitted or in
	preparation.			
C.	Research Support. List selected ongoing or co			
	and non-federal support). Begin with the pro- application. Briefly indicate the overall goals of the			
	the research project. Do not list award amounts			ivestigator, consultanty in

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format on for each person. (See attached sample). DO NOT EXCEED FOUR PAGES.						
NAME	POSITION TITLE					
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Principai	Investigator/Program	Director (Last	, iirst, miaale)):	

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow sample format for each person. **DO NOT EXCEED FOUR PAGES.**

Carlucci, Joseph Louis Professor of Microbiology EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) INSTITUTION AND LOCATION DEGREE YEAR(s) FIELD OF STUDY		(
Carlucci, Joseph Louis Professor of Microbiology	INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY			
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NAME POSITION TITLE	Carlucci, Joseph Louis	Professor of Microbiology					
	NAME	POSITION TITLE					

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)							
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY				
Stanford University	Ph.D.	1964	Infectious Diseases				
Harvard Medical School	M.D.	1972	Medicine/Parasitology				

A. Positions and Honors.

Positions and Employment

1969-1971	Medical Residency, Internal Medicine, Harvard Medical School
1971-1973	EIS Officer, Hospital Infection Section, Bacterial Diseases Branch, CDC, Atlanta, GA
1973-1974	Instructor and Fellow in Medicine, Hematology, Massachusetts General Hospital, Boston, MA
1974-1975	Instructor in Infectious Diseases, Massachusetts General Hospital, Boston, MA
1978-	Senior Associate in Infectious Diseases, Children's Hospital, Boston, MA
1978-1984	Assistant Professor of Pediatrics, Harvard Medical School
1985-1998	Chief, Hemostasis Laboratory, Children's Hospital, Boston, MA
1993-	Professor of Pediatrics, Harvard Medical School, Boston, MA
1998-	Professor, Dept. of Infectious Diseases, Harvard School of Public Health

Other Experience and Professional Memberships

1972-1973	Acting Chief, National Mucosal Infections Study
1975-2000	Director of Infectious Diseases Laboratory
	Hospital Epidemiologist (Medical Director Infection Control 2000-present), Children's Hospital,
	Boston
1981-1982	President, Society of Hospital Epidemiologists of America
1988	Member, Society for Pediatric Research
1989-present	Medical Director Quality Assurance, Children's Hospital, Boston, MA
1991-1993	Director, American Society for Microbiology, Division F
1991-1997	Hospital Infection Control Practices Advisory Committee, Centers for Disease Control
1998-present	Vice-Chair for Health Outcomes, Dept. of Medicine, Children's Hospital
1998-2001	Steering Committee, NACHRI/CDC Pediatric Prevention Network

Honors

1982	SERC Advanced Research Scholarship, Infectious Disease Society of America
2001	Anthony Steinway Award for Excellence in Teaching (Children's Hospital)

B. Selected peer-reviewed publications (in chronological order).

(Publications selected from 133 peer-reviewed publications)

1. Luciani JM, Casper J, Goodman BF, Shaw CM, Carlucci JL. Prevention of respiratory virus infections through compliance with frequent hand-washing routines. N Engl J Med 1988;318:389-394.

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- 2. Gussmann J, Pratt R, Sideway DG, Sinclair JM, Emmerson MF, Carlucci JL. Coagulase-negative staphylococcal bacteremia in the changing neonatal intensive care unit population. Is there an epidemic? JAMA. 1988;158:1548-1552.
- 3. Gussmann J, Carlucci JL, McGovern JE, Jr., Methodologic issues in nursing home epidemiology. Rev Infect Dis 1989;11:1119-1141.
- 4. Gussmann J, Emmerson MF, Smyth NE, Platt RI, Sidebottom DG, Carlucci JL. Early hospital release and antibiotic usage with nosocomial staphylococcal bacteremia in two neonatal intensive care unit populations. Amer J Dis Child 1991;149:325-339.
- 5. Murphy JA, Black RW, Schroeder LC, Weissman ST, Gussman JM, Carlucci JL, Short CJ. Quality of care for children with asthma: the role of social factors and practice setting. Pediatrics 1996;98:379-84.
- 6. Gussmann J, Carlucci JL, McGovern JE, Jr. Incidence of Staphylococcus epidermidis catheter-related bacteremia by infusions. J Infect Dis 1996;172:320-4.
- 7. Carlucci JL, Huskins WC. Control of nosocomial antimicrobial-resistant bacteria A strategic priority for hospitals worldwide. Clin Infect Dis 1997;S139-S145.
- 8. Corning WC, Saylor BM, O'Steen C, Gulapagos L, O'Reilly EJ, Carlucci JL. Hospital infection prevention and control: A model for improving the quality of hospital care in low income countries. Infect Control Hosp Epi. 1999;13:123-35.
- 9. Handler CJ, Marriott B, Clearwater PT, Carlucci JL. Quality of care at a children's hospital: the child's perspective. Arch Pediatr Adolesc Med. 1999;143:1120-7.
- 10. McKinney D, Poulet KL, Wong Y, Murphy V, Ulright M, Dorling G, Long JC, Carlucci JL, Piper GB. Protective vaccine for Staphylococcus aureus. Science 1999;214:1421-7.
- 11. Gulazzii L, Kispert ZT, Carlucci JL, Corning WC. Risk-adjusted mortality rates in surgery: a model for outcome measurement in hospitals developing new quality improvement programs. J Hosp Infect 2000:24:33-42.
- 12. Huebner J, Qui A, Krueger WA, Carlucci JL, Pier GB. Prophylactic and therapeutic efficacy of antibodies to a capsular polysaccharide shared among vancomycin-sensitive and resistant enterococci. Infect Inmmun 2000; 68:4631-6.
- 13. Levitan O, Sissy RB, Kenney J, Buchwald E, Maccharone AB, Carlucci JL. Enhancement of neonatal innate defense: Effects of adding an recombinant fragment of bactericidal protein on growth and tumor necrosis factor-inducing activity of gram-positive bacteria tested in vivo. Immun 2000;38:3120-25.
- 14. Garletti JS, Harrison MC, Collin PA, Miller CD, Otter D, Shaker C, Wren M, Carlucci JL, Makato DG. A randomized trial comparing iodine to a alcohol impregnated dressing for prevention of catheter infections in neonates. Pediatrics. 2001;127:1461-6.
- 15. Corning WC, Barillo K, Festival MR, Lingonberry S, Lumbar P, Peters A, Pursons M, Carlucci JL, Tella JE. A national survey of practice variation in the use of antibiotic prophylaxis in heart surgery. J Hosp Infect. 2001;33:121-5.
- 16. Hoboken S, Peterson D, Graveldy L, Carlucci JL. Compliance with hand hygiene practice in pediatric intensive care. Pediatric Crit Care Med. 2001;12:211-214.
- 17. Hasker S, Pittoui D, Gray L, Zaruccii A, Potter G, Seemore MH, Carlucci JL. Interventional study to evaluate the impact of an antibiotic-infused hand gel in improving hand hygiene compliance. Pediatr Infect Dis J. Accepted for publication.
- 18. Lander C, Summers R, Murray S, Hummer CJ, Carlucci JL. Pediatrics: Is hospital food more nutritional than mom's cooking? Pediatrics 2001;11: 140-145.

C. Research Support

Ongoing Research Support

R01 HS35793 Carlucci (PI)

9/01/99-8/30/04

AHRG

Reducing Antimicrobial Resistance in Low-Income Communities: A Randomized Trial.

This study is a randomized trial of interventions to reduce antimicrobial usage and resistance in low-income communities.

Role: PI

Principal Investigator/Program Director (La	.ast, first, middle):
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Ongoing Research Support (cont.)

2 R01 Al12345-05 Carlucci (PI)

4/01/01-3/31/06

NIH/NIAID

Bacteriology and Mycology Study of ICU Patients at Risk for Antimicrobial Resistant Bacterial Infections.

The study will perform clinical trials of interventions to reduce antimicrobial resistant infections.

Role: PI

R01- Al24680-04 Peterson (PI)

3/01/01-2/28/06

NIH/NIAID

Virulence and Immunity to Staphylococci.

This study investigates the production of polysaccharide by *Staphylococcus aureus* and its role in virulence as measured in animal models of infection and its ability to function as a target for protective antibody.

Role: Paid consultant.

2 R01 HL 00000-13 Anderson (PI)

3/01/01-2/28/06

NIH/NHLBI

Chloride and Sodium Transport in Airway Epithelial Cells

The major goals of this project are to define the biochemistry of chloride and sodium transport in airway epithelial cells and clone the gene(s) involved in transport.

Role: Co-Investigator

5 R01 HL 00000-07 Baker (PI)

4/1/01 - 3/31/04

NIH/NHLBI

Ion Transport in Lungs

The major goal of this project is to study chloride and sodium transport in normal and diseased lungs.

Role: Co-Investigator

1 R01 Al12826-01 Hoffman (PI)

9/28/01-9/27/03

NIH/NIAID

Intermountain Child Health Services Research Consortium

This consortium will seek to build pediatric health services research capacity and training in the Intermountain Region.

Role: Co-Investigator

Completed Research Support

5 RO1 Al10011-05 Herman (PI)

10/01/99 - 11/30/01

NIH/NIAID

Evaluating Quality Improvement Strategies (EQUIS)

The goal of this study was to evaluate quality improvement and collaborative learning to improve asthma care in office-based pediatrics.

Role: Co-Investigator

5 R01 Al098765 Spielman (PI)

7/01/96 -6/30/01

NIH/NIAID

Epidemiology of Emerging Infections #1 T32 AI07654

The goal of this project was to study emerging infections in high risk populations who are treated in emergency room situations.

Role: Co-Investigator

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RESOURCES

FACILITIES: Specify the facilities to be used for the conduct of the proposed research. Indicate the performance sites and describe capacities, pertinent capabilities, relative proximity, and extent of availability to the project. Under "Other," identify support services such as machine shop, electronics shop, and specify the extent to which they will be available to the project. Use continuation pages if necessary.
Laboratory:
Clinical:
Animal:
Computer:
Computer.
Office:
Other:
AJOR EQUIPMENT: List the most important equipment items already available for this project, noting the location and pertinent capabilities of each.

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	CHEC	KLIST	
TYPE OF APPLICATION (Check	all that apply.)		
NEW application. (This appl	lication is being submitted to the PHS for t	the first time.)	
SBIR Phase I SBIR Phase II: SBIR Phase I Grant No			SBIR Fast Track
STTR Phase I STTR Phase II: STTR Phase I Grant No			STTR Fast Track
REVISION of application nun	nber:		
(This application replaces a pr	rior unfunded version of a new, competing	continuation, or s	supplemental application.) INVENTIONS AND PATENTS
COMPETING CONTINUATION			(Competing continuation appl. and Phase II only)
(This application is to extend	d a funded grant beyond its current project	period.)	☐ No ☐ Previously reported
SUPPLEMENT to grant num			Yes. If "Yes," Not previously reported
(This application is for addition	onal funds to supplement a currently funde	d grant.)	
CHANGE of principal investigation	ator/program director.		
Name of former principal inv	estigator/program director:		
FOREIGN application or signi	ficant foreign component.		
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Page of the application. Description certifications are provided in Section where applicable, provide an exploration of Indian Subjects; •Research Usin •Research on Transplantation of Indian Subjects; •Research On Transplantation On Indian Subjects •Research On Transplantation On Indian Subject •Research On Indian Subj	or Applicant Organization on the Face ons of individual assurances/ ion III. If unable to certify compliance, lanation and place it after this page. Ing Human Embryonic Stem Cells Human Fetal Tissue •Women and of Children Policy• Vertebrate Animals•	Delinquency or (Form HHS 44 or HHS 690); • Discrimination Human Gene 1	rised [Type 1] applications only); •Lobbying; •Non- in Federal Debt; •Research Misconduct; •Civil Rights 1 or HHS 690); •Handicapped Individuals (Form HHS 641 Sex Discrimination (Form HHS 639-A or HHS 690); •Age (Form HHS 680 or HHS 690); •Recombinant DNA and Transfer Research; •Financial Conflict of Interest (except STTR) •STTR ONLY: Certification of Research Institution
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DHHS Agreement being neg	otiated with		Regional Office.
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CALCULATION* (The entire grant	t application, including the Checklist, will b	e reproduced and	d provided to peer reviewers as confidential information.)
a. Initial budget period:	Amount of base \$	x Rate applied	d % = F&A costs \$
b. 02 year	Amount of base \$	x Rate applied	
c. 03 year	Amount of base \$	x Rate applied	d % = F&A costs \$
d. 04 year	Amount of base \$	x Rate applied	d % = F&A costs \$
e. 05 year	Amount of base \$	x Rate applied	d % = F&A costs \$
			TOTAL F&A Costs \$
*Check appropriate box(es):			
Salary and wages base	Modified total direct	cost base	Other base (Explain)
	or more than one rate involved (Explain)		
Explanation (Attach separate shee	et, if necessary.):		
4. SMOKE-FREE WORKPLACE	Yes No (The response	to this question h	as no impact on the review or funding of this application.)
T. ONIONL-FREE WORKFLACE	i es ino (The response	to una question n	as no impact on the review of funding of this application.)

Place this form at the end of the signed original copy of the application. Do <u>not</u> duplicate.

PERSONAL DATA ON PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR

The Public Health Service has a continuing commitment to monitor the operation of its review and award processes to detect—and deal appropriately with—any instances of real or apparent inequities with respect to age, sex, race, or ethnicity of the proposed principal investigator/program director. To provide the PHS with the information it needs for this important task, complete the form below and attach it to the signed original of the application after the Checklist. **Do not attach copies of this form to the duplicated copies of the application.**

Upon receipt of the application by the PHS, this form will be separated from the application. This form will not be duplicated, and it will not be a part of the review process. Data will be confidential, and will be maintained in Privacy Act record system 09-25-0036, "Grants: IMPAC (Grant/Contract Information)." The PHS requests social Security numbers for accurate identification, referral, and review of applications and for management of PHS grant programs. Provision of the Social Security number is voluntary. No individual will be denied any right, benefit, or privilege provided by law because of refusal to disclose his or her Social Security Number. The PHS requests the Social Security Number under Sections 301 (a) and 487 of the PHS Act as amended (42 USC241a and USC288). All analyses conducted on the date of birth and race and/or ethnic origin data will report aggregate statistical findings only and will not identify individuals. If you decline to provide this information, it will in no way affect consideration of your application. Your cooperation will be appreciated.

DATE OF B	IRTH <i>(MM/DD/YY)</i>	SEX/GENDER Female Male			
Social Se	curity Number	mas			
ETHNICI	ГҮ				
I. Do you	consider yourself to be Hispanic or Latino? (See definition below.)	Select one.			
	Hispanic or Latino. A person of Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino."				
	Hispanic or Latino				
	Not Hispanic or Latino				
RACE					
2. What ra	ace do you consider yourself to be? Select one or more of the follo	owing.			
	American Indian or Alaska Native. A person having origins in any of America, and who maintains tribal affiliation or community attachment.	of the original peoples of North, Central, or South			
	Asian. A person having origins in any of the original people Indian subcontinent, including, for example, Cambodia, China, India, Islands, Thailand, and Vietnam. (Note: Individuals from the Philippine Islands data collection strategies.)	Japan, Korea, Malaysia, Pakistan, the Philippine			
	Black or African American. A person having origins in any of the blac or "Negro" can be used in addition to "Black" or African American."	ck racial groups of Africa. Terms such as "Haitian"			
	Native Hawaiian or Other Pacific Islander. A person having origins Samoa, or other Pacific Islands.	s in any of the original peoples of Hawaii, Guam,			
	White. A person having origins in any of the original peoples of Europe,	the Middle East, or North Africa.			
	Check here if you do not wish to provide some or all of the above information	ation.			

PHS 398 (Rev. 05/01) DO NOT NUMBER THIS FORM Personal Data Form Page



Principal Investigator/Program Director (Last, first, middle):

Targeted/Planned Enrollment Table

This report format should NOT be used for data collection from study participants.

Study Title:

Total Planned Enrollment:

TARGETED/PLANNED ENROLLMENT: Number of Subjects						
Ethnic Category	Sex/Gender					
	Females	Males	Total			
Hispanic or Latino						
Not Hispanic or Latino						
Ethnic Category Total of All Subjects*						
Racial Categories						
American Indian/Alaska Native						
Asian						
Native Hawaiian or Other Pacific Islander						
Black or African American						
White						
Racial Categories: Total of All Subjects *						

^{*}The "Ethnic Category Total of All Subjects" must be equal to the "Racial Categories Total of All Subjects."

Inclusion Enrollment Report Table

This report format should NOT be use Study Title:	ed for data col	lection from	study participants	•		
Total Enrollment: Grant Number:	Protocol Number:					
PART A. TOTAL ENROLLMENT REPORT: Number by Ethnic	of Subjects I		Date (Cumulative	e)		
-	Sex/Gender					
Ethnic Category	Females	Males	Unknown or Not Reported	Total		
Hispanic or Latino				**		
Not Hispanic or Latino						
Unknown (Individuals not reporting ethnicity)						
Ethnic Category: Total of All Subjects*				*		
Racial Categories						
American Indian/Alaska Native						
Asian						
Native Hawaiian or Other Pacific Islander						
Black or African American						
White						
More than one race						
Unknown or not reported						
Racial Categories: Total of All Subjects*				*		
PART B. HISPANIC ENROLLMENT REPORT: Num (Cumulative)	ber of Hispai	nics or Lati	nos Enrolled to D	Date		
Racial Categories	Females	Males	Unknown or Not Reported	Total		
American Indian or Alaska Native						
Asian						
Native Hawaiian or Other Pacific Islander						
Black or African American						
White						
More Than One Race						
Unknown or not reported						
Racial Categories: Total of Hispanics or Latinos**				**		

^{*} These totals must agree.

^{**} These totals must agree.

RCA TOC Substitute Page

Candidate (Last, first, middle):

Use this substitute page for the Table of Contents of Research Career Awards. The name of the candidate must be provided at the top of each printed page and each continuation page.

RESEARCH CAREER AWARD TABLE OF CONTENTS (Substitute Page)

Page Numbers

Section I: Basic Administrative Data		
1–3. Face Page, Description and Key Personnel, Table of Contents (Form pages 1, 2, and this substitute page)	1-	_
4. Budget for Entire Proposed Period of Support (Form page 5)		_
5. Biographical Sketches (Candidate and Sponsor[s]*—Biographical Sketch Format page) (Not to exceed four pages)		_
6. Other Support Pages for the Mentor (not the candidate)		_
7. Resources (Resources Format page)	-	_
Section II: Specialized Information		_
1. Introduction to Revised Application (Not to exceed 3 pages)		_ _ _
A. Candidate's Background	<u> </u>	_
B. Career Goals and Objectives: Scientific Biography	→ —	_
C. Career Development Activities during Award Period		_
4. Statements by Sponsor(s), Consultant(s)*, and Collaborator(s)*	_	_
5. Environment and Institutional Commitment to Candidate		_
A. Description of Institutional Environment		_
B. Institutional Commitment to Candidate's Research Career Development		_
A. Statement of Hypothesis and Specific Aims	_	_
B. Background, Significance, and Rationale (Items A-D included in 25 page limit)		_
C. Preliminary Studies and Any Results]	_
D. Research Design and Methods		_
E. Human Subjects*		_
List appropriate grants with IRB approval dates or exemption designation		_
F. Vertebrate Animals*		_
List appropriate grants with IACUC approval dates or exemption designation		_
G. Literature Cited		_
H. Consortium/Contractual Arrangements*		_
I. Consultants*		_
7. Checklist		_
8. Appendix (Five collated sets. No page numbering necessary) Check if Appendix is included Number of publications and manuscripts accepted or submitted for publication (not to exceed 6) List of Key Items:		
Note: Type density and size must conform to limits provided in the Specific Instructions.		
*Include these items only when applicable.		
CITIZENSHIIP		
U.S. citizen or noncitizen national Permanent resident of U.S. (If a permanent resident of the U.S., a notarize provided by the time of award.	ed statement must be	

RESEARCH CAREER AWARD REFERENCE REPORT GUIDELINES (Series K)

Title of Award:	
Type of Award:	Application Submission Deadline:
Name of Candidate (Last, first, middle):	
Name of Respondent (Last, first, middle):	

The candidate is applying to the National Institutes of Health for a Research Career Award (RCA). The purpose of this award is to develop the research capabilities and career of the applicant. These awards provide up to five years of salary support and guarantee them the ability to devote at least 75–80 percent of their time to research for the duration of the award. Many of these awards also provide funds for research and career development costs. The award is available to persons who have demonstrated considerable potential to become independent researchers, but who need additional supervised research experience in a productive scientific setting.

We would appreciate receiving your evaluation of the above candidate with special reference to:

- potential for conducting research;
- evidence of originality;
- adequacy of scientific background;
- quality of research endeavors or publications to date, if any:
- commitment to health-oriented research; and
- need for further research experience and training.

Any related comments that you may wish to provide would be welcomed. These references will be used by PHS committees of consultants in assessing candidates.

Complete the report in English on 8-1/2 x 11" sheets of paper. Return your reference report to the candidate sealed in the envelope as soon as possible and in sufficient time so that the candidate can meet the application submission deadline. References must be submitted with the application.

We have asked the candidate to provide you with a self-addressed envelope with the following words in the front bottom corner: "DO NOT OPEN—PHS USE ONLY." Candidates are not to open the references. Under the Privacy Act of 1974, RCA candidates may request personal information contained in their records, including this reference. Thank you for your assistance.

Type the name of the principal investigator/program director at the top of each printed page and each continuation page. (For type specifications, see PHS 398 Instructions.)

INSTITUTIONAL NATIONAL RESEARCH SERVICE AWARD (Substitute Page)

TABLE OF CONTENTS

	Page Numbers
Face Page Description and Personnel, Table of Contents (Form Pages 1, 2, and this NRSA Substitute Form Page 3)	1
Detailed Budget for Initial Budget Period (NRSA Substitute Form Page 4)	
Budget for Entire Proposed Period of Support (NRSA Substitute Form Page 5)	
Biographical Sketch—Principal Investigator/Program Director (Not to exceed four pages)	
Other Biographical Sketches (Not to exceed four pages for each)	
Resources	
Research Training Program Plan	
Introduction to Revised Application (Not to exceed 3 pages)	
Introduction to Supplemental Application (Not to exceed one page)	
A. Background	
B. Program Plan	
1. Program Direction	
2. Program Faculty (Items A-D: not to exceed 25 pages,] —
3. Proposed Training excluding tables*)	<u> </u>
4. Trainee Candidates	
C. Recruitment of Individuals from Underrepresented Racial/Ethnic Groups	
D. Responsible Conduct of Research	
E. Progress Report (Competing Continuation Applications Only)	
F. Human Subjects	
Protection of Human Subjects (Required if Item 4 on the Face Page is marked "Yes")	
Inclusion of Women (Required if Item 4 on the Face Page is marked "Yes")	
Inclusion of Minorities (Required if Item 4 on the Face Page is marked "Yes")	
Inclusion of Children (Required if Item 4 on the Face Page is marked "Yes")	
Data and Safety Monitoring Plan (Required if Item 4 on the Face Page is marked "Yes" <u>and</u> a Phase I, II, or III clinical trial is proposed)	
G. Vertebrate Animals	
H. Consortium/Contractual Arrangements	
Checklist	
*Type density and size must conform to limits provided in PHS 398 Specific Instructions.	
Appendix (Five collated sets. No page numbering necessary for Appendix.)	Observative
	Check if Appendix is included

PHS 398 (Rev. 05/01) Page _____ NRSA Substitute Form Page 3

NRSA Initial Budget Period Substitute Page

Principal Investigator/Program Director:

(Last, first, middle)

DETAILED BUDGET FOR INITIAL BUDGET PERIOD DIRECT COSTS ONLY (NRSA Substitute Page)	FROM	THROUGH
STIPENDS		DOLLAR TOTAL
PREDOCTORAL		
	No. Requested:	
POSTDOCTORAL (Itemize)		
OTHER (Specify)	No. Requested:	
OTTEN (Openly)		
	No. Requested:	
TOTAL CTIDENIDS	—	
TOTAL STIPENDS		
TUITION, FEES, AND INSURANCE (Itemize)		
TRAINEE TRAVEL (Describe)		
,		
TRAINEE RELATED EXPENSES		
TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Also enter on Face Pag	e, Item 7)	



NRSA Entire Budget Period Substitute Page

PHS 398 (Rev. 05/01)

Principal Investigator/Program Director: (Last, first, middle)

BUDGET FOR ENTIRE PROPOSED PERIOD OF SUPPORT DIRECT COSTS ONLY (NRSA Substitute Page)

BUDGET CATEGORY		INITIAL BUDGET PERIOD						,TED		
TOTALS	(from	Form Page 4)		2nd	T	3rd		4th		5th
PREDOCTORAL STIPENDS	No.		No.		No.		No.		No.	
POSTDOCTORAL STIPENDS										
OTHER STIPENDS			_ '							
TOTAL STIPENDS										
TUITION, FEES, AND INSURANCE										
TRAINEE TRAVEL										
TRAINEE RELATED EXPENSES										
TOTAL DIRECT COSTS										
TOTAL DIRECT COSTS FOR ENTIRE PROPOSED PROJECT PERIOD (Item 8a, Face Page)										

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Page ____

NRSA Substitute Form Page 5

STTR Research Institution Budget Additional Page Principal Investigator/Program Director: (Last, first, middle)

BUDGET of RESEARCH INSTITUTION (STTR ONLY)					FROM	TI	HROUGH
NAME AND ADDRESS OF RESEARCH INSTITUTION							
PERSONNEL			%		DOLLAR AMOUNT	REQUE	STED (omit cents)
NAME	ROLE (- ADDT	EFFORT ON PROJ.	INST. BASE SALARY		RINGE ENEFITS	TOTAL
	Principal Investiga						
CONCLUITANT COSTS	SUBTOT	ALS		-			
CONSULTANT COSTS							
EQUIPMENT (Itemize)							
SUPPLIES (Itemize by category)							
TRAVEL							
PATIENT CARE COSTS	INPATIENT						
	OUTPATIEN	Т					
ALTERATIONS AND RENOVATION		/ category)					
OTHER EXPENSES (Itemize by cat	egory)						
TOTAL DIRECT COSTS (also enter	as Consortiun	m/Contractual Costs	s on Budget Pag	e of Small Busir	ness Concern)		
FACILITIES and ADMINISTRATIVE COSTS (show calculation) (also enter as Consortium/Contractual Costs on Budget of Small Business Concern)							
CERTIFICATION OF RESEARCH INSTITUTION PARTICIPATION. Through the signature below of the duly authorized representative of the research institution on this "Certification of Research Institution" page, and by way of the signature of the official signing for applicant organization (small business concern) on the Face Page of the application, the small business concern and the research institution certify <i>jointly</i> that: (1) the proposed STTR project will be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("cooperative research and development"); (2) the proposed STTR project is a cooperative research or research and development effort to be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("performance of research and analytical work"); and (3) regardless of the proportion of the proposed project to be performed by each party, the small business concern will be the primary party that will exercise management direction and control of the performance of the project. If the research institution is a contractor-operated federally funded research and development center certifies, additionally, that it: (4) is free from organizational conflicts of interests relative to the STTR program; (5) did not use privileged information gained through work performed for an STTR agency or private access to STTR agency personnel in the development of this STTR grant application; and (6) used outside peer review, as appropriate, to evaluate the proposed project and its performance therein.							
Signature of Duly Authorized Representative Printed Name Title Date of Signature							

Principal Investigator/Program Director: (Last, first, middle)

Certification of Research Institution for Small Business Technology Transfer Grants

Through the signature below of the duly authorized representative of the research institution on this "Certification of Research Institution" page, and by way of the signature of the official signing for applicant organization (small business concern) on the Face Page of the application, the small business concern and the research institution certify *jointly* that:

- (1) the proposed STTR project will be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("cooperative research and development");
- (2) the proposed STTR project is a cooperative research or research and development effort to be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("performance of research and analytical work"); and
- (3) regardless of the proportion of the proposed project to be performed by each party, the small business concern will be the primary party that will exercise management direction and control of the performance of the project.

If the research institution is a contractor-operated federally funded research and development center, the duly authorized representative of the contractor-operated federally funded research and development center certifies, additionally, that it:

- (4) is free from organizational conflicts of interests relative to the STTR program
- (5) did not use privileged information gained through work performed for an STTR agency or private access to STTR agency personnel in the development of this STTR grant application; and
- (6) used outside peer review, as appropriate, to evaluate the proposed project and its performance therein.

Signature of Duly Authorized Representative	Date of Signature	
	•	
Printed Name and Title of Duly Authorized Representative		
Finited Name and Title of Duty Authorized Representative		

Research Institution Total Costs =

(Direct costs + F&A Costs)

DO NOT SUBMIT UNLESS REQUESTED

OTHER SUPPORT

There is no "form page" for other support. Information on other support should be provided in the *format* shown below, using continuation pages as necessary. *Include the principal investigator's name at the top and number consecutively with the rest of the application.* The sample is intended to provide guidance regarding the type and extent of information requested. Refer to the specific instructions in Section I. For information pertaining to the use of and policy for other support, see "Policy and Additional Guidance."

Format

NAME OF INDIVIDUAL ACTIVE/PENDING		
Project Number (Principal Investigator) Source Title of Project (or Subproject)	Dates of Approved/Proposed Project Annual Direct Costs	Percent Effort
The major goals of this project are		

OVERLAP (summarized for each individual)

Samples

ANDERSON, R.R.

ACTIVE

2 R01 HL 00000-13 (Anderson) 3/1/1997 – 2/28/2002 30%

NIH/NHLBI \$186,529

Chloride and Sodium Transport in Airway Epithelial Cells

The major goals of this project are to define the biochemistry of chloride and sodium transport in airway epithelial cells and clone the gene(s) involved in transport.

5 R01 HL 00000-07 (Baker) 4/1/1994 – 3/31/2002 10%

NIH/NHLBI \$122,717

Ion Transport in Lungs

The major goal of this project is to study chloride and sodium transport in normal and diseased lungs.

R000 (Anderson) 9/1/1996 – 8/31/2002 10%

Cystic Fibrosis Foundation \$43,123

Gene Transfer of CFTR to the Airway Epithelium

The major goals of this project are to identify and isolate airway epithelium progenitor cells and express human CFTR in airway epithelial cells.

PENDING

DCB 950000 (Anderson) 12/01/2002 – 11/30/2004 20%

National Science Foundation \$82,163

Liposome Membrane Composition and Function

The major goals of this project are to define biochemical properties of liposome membrane components and maximize liposome uptake into cells.

OVERLAP

PHS 398 (Rev. 05/01) Page _____ Other Support Format Page

DO NOT SUBMIT UNLESS REQUESTED

OTHER SUPPORT (continued)

RICHARDS, L.

NONE

HERNANDEZ, M.

ACTIVE

5 R01 CA 00000-07 (Hernandez) 4/1/1995 – 3/31/2002 40% academic

NIH/NCI

Gene Therapy for Small Cell Lung Carcinoma

The major goals of this project are to use viral strategies to express the normal p53 gene in human SCLC cell lines and to study the effect on growth and invasiveness of the lines.

5 P01 CA 00000-03 (Chen) 7/1/2000 – 6/30/2002 20% academic NIH/NCI \$104,428 (sub only) 100% summer

Mutations in p53 in Progression of Small Cell Lung Carcinoma

The major goals of this subproject are to define the p53 mutations in SCLC and their contribution to tumor progression and metastasis.

BE 00000 (Hernandez) 9/1/1996 – 8/31/2002 20% academic

American Cancer Society \$86,732

p53 Mutations in Breast Cancer

The major goals of this project are to define the spectrum of p53 mutations in human breast cancer samples and correlate the results with clinical outcome.

OVERLAP

Potential commitment overlap for Dr. Hernandez between 5 R01 CA 00000-07 and the application under consideration. If the application under consideration is funded with Dr. Hernandez committed at 30 percent effort, Dr. Hernandez will request approval to reduce her effort on the NCI grant.

BENNETT, P.

ACTIVE

Investigator Award (Bennett) 9/1/1999 - 8/31/2002 70%

Howard Hughes Medical Institute \$581,317

Gene Cloning and Targeting for Neurological Disease Genes

This award supports the PI's program to map and clone the gene(s) implicated in the development of Alzheimer's disease and to target expression of the cloned gene(s) to relevant cells.

OVERLAP

None

PHS 398 (Rev. 05/01) Page ____ Other Support Format Page

DO NOT SUBMIT UNLESS REQUESTED

Competing Continuation Applications PERSONNEL REPORT

All Key Personnel	for the C	Current R	ludaet Perio	h

Name	Degree(s)	SSN	Role on Project (e.g. Pl, Res. Assoc.)	Date of Birth (MM/DD/YY)	Annua % Effor

PHS 398 (Rev. 05/01) Page ____ Personnel Report Format Page

Mailing address for application

Use this label or a facsimile

CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH
6701 ROCKLEDGE DRIVE
ROOM 1040 – MSC 7710
BETHESDA, MD 20892-7710

Applicants who wish to use express mail or overnight courier service use this address, but change the zip code to 20817. The telephone number is 301-435-0715.

C.O.D. applications will not be accepted.

For application in response to RFA

Use this label or a facsimile

IF THIS APPLICATION IS IN RESPONSE TO AN RFA, be sure to put the RFA number in line 2 of the application face page. In addition, after duplicating copies of the application, cut along the dotted line below and staple the RFA label to the bottom of the face page of the original and place the original on top of your entire package. Failure to use this RFA label could result in delayed processing of your application such that it may not reach the review committee on time for review. **Do not use** the label unless the application is in response to a specific RFA. Also, applicants responding to a specific RFA should be sure to follow all special mailing instructions published in the RFA.

RFA No. _____



Mailing address for application

Use this label or a facsimile

CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH
6701 ROCKLEDGE DRIVE
ROOM 1040 – MSC 7710
BETHESDA, MD 20892-7710

Applicants who wish to use express mail or overnight courier service use this address, but change the zip code to 20817. The telephone number is 301-435-0715.

C.O.D. applications will not be accepted.

For application in response to SBIR/STTR

Use this label or a facsimile

IF THIS APPLICATION IS IN RESPONSE TO AN SBIR/STTR Solicitation, be sure to put the SBIR/STTR Solicitation number in line 2 of the application face page. In addition, after duplicating copies of the application, cut along the dotted line below and staple the appropriate SBIR or STTR label to the bottom of the face page of the original and place the original on top of your entire package. If this SBIR or STTR application is in response to an RFA, be sure to also include the RFA No. in the space provided below.

SBIR	
RFA No	_(if applicable)

STTR	
RFA No.	(if applicable)